

PAR 215

2 Oct 64

SUBJECT: Roller Transport Processor (24-Inch)

TASK/PROBLEM

1. Design and fabricate a self-threading photographic processor capable of processing cut sheets up to 24-inches wide.

DISCUSSION

2. Approximately 95 percent of the design engineering phase is completed.

3. Currently, it appears that the most economical use of tank space in the processor will be as follows:

- a. Develop - 1 min at 80°F, 2 racks
- b. Fix₁ - 1/2 min at 80°F, 1 rack
- c. Fix₂ - 1 min at 80°F, 2 racks
- d. Wash - 3 1/2 min at 80°F, 7 racks

4. There is some indication that the twelve tank processor originally planned for this project will not wash standard base double weight paper satisfactorily at the 8 ft/min design speed. This problem is being investigated and will be reported after it is resolved satisfactorily.

5. If additional wash time is required, it would be proposed that an additional module consisting of four additional racks be added to the wet section of the processor. Under these conditions, the recommended processing cycle would be:

Declass Review by NGA.

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- a. Develop - 1 min at 80°F, 2 racks
- b. Fix₁ - 1 min at 80°F, 2 racks
- c. Fix₂ - 2 min at 80°F, 4 racks
- d. Wash - 4 min at 80°F, 8 racks

6. In both processing cycles (paragraphs 3 and 5 above), Fix₁ is a nonhardening fix and is recommended to enhance the washing characteristics of double weight standard base paper. The additional Fix₂ time is required to inhibit the formation of the silver sodium thiosulfate complex molecules which are difficult to wash out.

PLANNED ACTIVITY

7. Work is continuing in the investigation of double weight paper washing. Design and fabrication of equipment will continue at the current rate.

8. One briefing aid has been completed. A pending briefing aid review may result in the need for additional aids.

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